

Appl. No. 02/780,961
Atty. Docket No. 9534
Amdt. dated February 23, 2006
Reply to Office Action of November 14, 2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

1. (Original) A disposable absorbent article having one or more side flaps or wings, comprising:
 - (a) a fluid-pervious topsheet, a fluid-impervious backsheet opposing said topsheet, and an absorbent core disposed between said topsheet and said backsheet, said article having a longitudinal direction and a transverse direction perpendicular thereof;
 - (b) said one or more wings extending in said transverse direction and comprising at least one corrugated region including a multiplicity of ridges and recesses, said ridges rising toward a garment-facing surface of said article and having glue strips attached to crests of said ridges; and
 - (c) a release material for covering said at least one corrugated region, said release material contacting said glue strips.
2. (Original) The article of Claim 1, wherein said article is a catamenial napkin for absorbing menses or an incontinence pad for absorbing urine.
3. (Original) The article of Claim 1, wherein said multiplicity of ridges and recesses extend in a direction perpendicular to said longitudinal direction.
4. (Original) The disposable absorbent article of Claim 1, wherein said multiplicity of ridges and recesses extend in a direction parallel to said longitudinal direction.
5. (Original) The disposable absorbent article of Claim 1, wherein said multiplicity of ridges and recesses extend in a direction forming an angle with said longitudinal direction, said angle being greater than 0 degrees and less than 90 degrees.

Appl. No. 02/780,961
Atty. Docket No. 9534
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6. (Original) The disposable absorbent article of Claim 1, wherein said at least one corrugated region includes a multiplicity of said ridges and recesses extending in a direction that is different from a multiplicity of ridges and recesses of a second corrugated region.
7. (Original) The article of Claim 1, wherein said ridges and recesses have a pitch ranging from about 1 mm to about 5 mm.
8. (Original) The article of Claim 1, wherein said ridges and recesses have a height ranging from about 1 mm to about 6 mm.
9. (Original) The article of Claim 1, wherein said backsheet comprises at least one corrugated region.
10. (Withdrawn) A method of producing a composite material including a corrugated material, a release material opposed thereto, and a multiplicity of glue strips disposed between the release material and the corrugated material and attached to the crests of the corrugated material, the method comprising the steps of:
 - (a) providing at least two corrugating rolls, counter-rotating and engaged with each other, said corrugating rolls having a multiplicity of ridges and recesses disposed on the outer surfaces of said corrugating rolls, said ridges extending perpendicularly to axes of rotation of said corrugating roll and being separated from each other at a pitch;
 - (b) providing a first material between said corrugating rolls for deforming said first material into a corrugated material having a multiplicity of ridges and recesses;
 - (c) heat-treating said corrugated material at a temperature less than the melting temperature of said first material;
 - (d) providing a release material having a multiplicity of glue strips disposed in a machine direction and at said pitch therebetween; and

Appl. No. 02/780,961
Atty. Docket No. 9534
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Customer No. 27752

(e) combining said release material with said corrugated material, wherein said multiplicity of glue strips are attached to crests of said ridges of said corrugated material to form said composite material.

11. (Withdrawn) The method of Claim 10, wherein said pitch between said grooves of said ring rolls is from about 1 mm to about 5 mm.

12. (Withdrawn) The method of Claim 10, wherein the step of providing a release material further comprises the step of depositing a multiplicity of glue strips by a glue applicator.

13. (Withdrawn) The method of Claim 10, wherein said glue applicator is a slot applicator.

14. (Withdrawn) The method of Claim 10, wherein the step of combining further comprises the step of pressing said release material against said corrugated material to attach said glue strips to said ridges of said corrugated material.

15. (Withdrawn) The method of Claim 10, wherein said composite material comprises a wing of a disposable absorbent article.

16. (Withdrawn) The method of Claim 10, wherein said composite material comprises a backsheet of a disposable absorbent article.

17. (Withdrawn) A method of producing a composite material including a corrugated material, a release material opposed thereto, and a multiplicity of glue strips disposed between the release material and the corrugated material and attached to the crests of the corrugated material, the method comprising the steps of:

(a) providing at least two corrugating rolls, counter-rotating and engaged with each other, said corrugating rolls having a multiplicity of ridges and recesses disposed on the outer surfaces of said corrugating rolls,

Appl. No. 02/780,961
Atty. Docket No. 9534
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Customer No. 27752

said ridges extending perpendicularly to axes of rotation of said corrugating roll and being separated from each other at a pitch;

- (b) providing a first material between said corrugating rolls for deforming said first material into a corrugated material having a multiplicity of ridges and recesses;
- (c) heat-treating said corrugated material at a temperature less than the melting temperature of said first material;
- (d) providing a glue-covered roll for contacting crests of said ridges of said corrugated material with a glue to transfer said glue from said glue-covered roll to said crests of said ridges of said corrugated material;
- (e) providing a release material; and
- (f) combining said release material with said corrugated material, wherein said glue at said crests is disposed between said corrugated material and said release material to form said composite material.

18. (Withdrawn) The method of Claim 17, wherein said pitch between said grooves of said ring rolls is from about 1 mm to about 5 mm.

19. (Withdrawn) The method of Claim 17, wherein said composite material comprises a wing of a disposable absorbent article.

20. (Withdrawn) The method of Claim 17, wherein said composite material comprises a backsheet of a disposable absorbent article.